

What is claimed is:

1 1. A method, comprising:
2 defining a plurality of hardware devices as a plurality of objects;
3 providing a plurality of tools to perform a plurality of operations on
4 the plurality of objects;
5 executing a software program to use the plurality of tools; and
6 responding to the plurality of operations by the plurality of
7 hardware devices.

1 2. The method of claim 1, wherein defining the plurality of hardware
2 devices as a plurality of objects further comprises:
3 assigning a plurality of properties to the plurality of hardware
4 devices; and
5 assigning a plurality of methods to the plurality of hardware
6 devices.

1 3. The method of claim 2, wherein defining the plurality of hardware
2 devices as a plurality of objects further comprises:
3 assigning a plurality of events to the plurality of hardware devices.

1 4. The method of claim 3, wherein providing a plurality of tools to
2 perform operations on the plurality of objects further comprises:
3 providing a function for invoking a method of an object;
4 providing a function for setting a property of an object; and
5 providing a function for retrieving a property of an object.

6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

1 5. The method of claim 3, wherein providing a plurality of tools to
2 perform operations on the plurality of objects further comprises:
3 providing a function for monitoring an event of an object; and
4 providing a function for ending monitoring an event of an object.

1 6. An article comprising a medium storing instructions that cause a
2 processor-based system to:

3 receive a request from a software program;
4 act upon a plurality of objects based upon the request received;
5 and
6 manipulate a plurality of hardware devices modeled by the plurality
7 of objects.

1 7. The article of claim 6, further storing instructions that cause a
2 processor-based system to use a plurality of configuration library tools to act
3 upon a plurality of objects.

1 8. The article of claim 7, further storing instructions that cause a
2 processor-based system to invoke a plurality of methods of the plurality of
3 objects.

1 9. The article of claim 7, further storing instructions that cause a
2 processor-based system to retrieve a plurality of properties of the plurality of
3 objects.

1 15. The system of claim 12, wherein the software program further
2 performs operations on the plurality of objects by monitoring one of the plurality
3 of events of one of the plurality of objects.

1 16. A system, comprising:
2 a processor;
3 a plurality of disks; and
4 a memory storing software which:
5 models the plurality of disks as a plurality of disk objects;
6 provides a plurality of tools for performing a plurality of
7 operations on the plurality of disk objects; and
8 invokes a response by the plurality of disks to the plurality of
9 operations performed on the plurality of disk objects.

1 17. The system of claim 16, wherein the software program is stored in
2 the memory.

1 18. The system of claim 16, further comprising:
2 a plurality of buses; and
3 a plurality of controllers.

1 19. The system of claim 18, further comprising a memory storing
2 software which:
3 models the plurality of buses as a plurality of bus objects; and
4 models the plurality of controllers as a plurality of controller
5 objects.

1 20. The system of claim 19, further comprising a memory storing
2 software which:
3 models the plurality of volumes as a plurality of volume objects;
4 and
5 models the plurality of arrays as a plurality of array objects.

1 21. The system of claim 20, further comprising a memory storing
2 software which invokes a response to the plurality of operations by:
3 the plurality of buses for operations performed on the plurality of
4 bus objects; and
5 the plurality of controllers for operations performed on the plurality
6 of controller objects.

1 22. An object comprising:
2 a plurality of methods to model operations performed upon a
3 device;
4 a plurality of properties to model attributes of the device; and
5 a plurality of events to model actions of the device.

1 23. The object of claim 22, wherein the methods comprise parameters
2 of the object.

1 24. The object of claim 23, wherein the parameters comprise
2 properties of the object.

1 25. A system, comprising:
2 an interface, comprising:
3 a plurality of functions; and
4 a plurality of objects coupled to the plurality of functions;
5 and
6 a plurality of devices coupled to the interface, wherein a
7 software program may control the plurality of devices by communicating with the
8 interface.

1 26. The system of claim 25, wherein the plurality of functions further
2 comprises a function for retrieving a property of one of the plurality of objects.

1 27. The system of claim 26, wherein the function for retrieving a
2 property of one of the plurality of functions further comprises:
3 a parameter to identify the object for which the property is
4 retrieved;
5 a parameter to identify the property to be retrieved; and
6 a parameter for storing a result.

Add 5